LISTING OF THE CLAIMS

 (Previously presented) A method for producing asphaltic foam comprising the steps of:

providing an asphalt;

liquefying said asphalt;

adding to said asphalt one or more isocyanates, thereby forming a first intermediate mixture;

bringing the temperature of said first intermediate mixture to between about 120°F and 170°F:

forming a second intermediate mixture comprising one or more polyols, a blowing agent, and a surfactant, wherein the second intermediate mixture is segregated from the first intermediate mixture;

forcing said first intermediate mixture through a first impingement dispensing head;

forcing said second intermediate mixture through a second impingement dispensing head; and

mixing said first intermediate mixture forced through said first impingement dispensing head with said second intermediate mixture forced through said second impingement dispensing head, thereby forming a final reaction mixture, wherein said first intermediate mixture and said second intermediate mixture react and expand in a controllable manner such that the final reaction mixture does not expand beyond a form desired in a final molded asphaltic foam or cure before taking on said form to produce said asphaltic foam.

(Original) The method of Claim 1, wherein the asphalt comprises the following components:

about 12-13% by weight asphaltene;

about 9-12% by weight saturated hydrocarbons;

about 38-44% by weight polar components; and

about 35-38% by weight naphthalene aromatic constituents.

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> (Original) The method of Claim 1, wherein the second intermediate mixture comprises at least one additional ingredient selected from the group consisting of catalyst and fire retardant.

- 4. (Original) The method of Claim 1, wherein the surfactant is a silicone surfactant
 - 5. (Original) The method of Claim 3, wherein the catalyst is a curing catalyst.
 - (Original) The method of Claim 3, wherein the fire retardant is TCPP.
- 7. (Original) The method of Claim 1, wherein the isocyanate is polymeric methylene diphenyl diisocyanate (MDI).
- (Original) The method of Claim 1, wherein the first intermediate mixture comprises about 1:1 to about 1.5:1 polyisocyanate:asphalt.
- (Original) The method of Claim 1, wherein the polyol is an amino-based polyol.
- 10. (Original) The method of Claim 1, wherein the blowing agent is selected from the group consisting of water, halocarbons, and mixture of ethanol and dibutylpthalate.
- (Original) A method of forming a ridge cap or roofing tile comprising the steps of:

providing a conveyor belt;

applying a granule layer to said conveyor belt:

providing a mold with a top side open;

filling the mold with a reaction mixture produced by a method of Claim 1; applying the mold with the open side down on said granule layer; and

curing the asphaltic foam; thereby forming the ridge cap or roofing tile.

- (Original) The method of Claim 11, additionally comprising the step of forming an indentation on said granule layer after applying the granule layer on said conveyor belt.
- 13. (Original) The method of Claim 11, additionally comprising the step of applying a second granule layer having a contrasting color compared to the color of said first granule layer.
- (Original) The method of Claim 11, wherein said mold comprises an indentation.

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- (Original) The method of Claim 11, further comprising applying a strip of modified asphalt onto the granule layer before applying the asphaltic foam.
- (Original) The method of Claim 15, further comprising applying a fire resistant roofing underlayment onto the strip of modified asphalt.
- 17. (Original) The method of Claim 16, wherein the fire resistant roofing underlayment is a coated substrate product with fire-resistant qualities.
- (Original) The method of Claim 11, wherein the second intermediate mixture comprises at least one additional ingredient selected from the group consisting of catalyst and fire retardant.
 - 19. (Original) The method of Claim 18, wherein the catalyst is a curing catalyst.
- (Original) The method of Claim 11, wherein the surfactant is a silicone surfactant.
- (Original) The method of Claim 11, wherein the isocyanate is polymeric methylene diphenyl diisocyanate (MDI).
- (Original) The method of Claim 11, wherein the first intermediate mixture comprises about 1:1 to about 1.5:1 polyisocyanate:asphalt.
- (Original) The method of Claim 11, wherein the polyol is an amino-based polyol.
- 24. (Original) The method of Claim 11, wherein the blowing agent is selected from the group consisting of water, halocarbons, and mixture of ethanol and dibutylpthalate.
- (Previously presented) The method of Claim 1, wherein the mixing step produces an initial cream time in which the final reaction mixture thickens.
- (Previously presented) The method of Claim 1, wherein the initial cream time lasts for about 15 to 20 seconds.
- (Previously presented) The method of Claim 1, wherein the mixing step lasts about 2 to 6 seconds.
- 28. (Previously presented) The method of Claim 25, wherein the initial cream time is followed by an expansion stage in which production of CO₂ causes expansion of the final reaction mixture.
- (Previously presented) The method of Claim 1, wherein the blowing agent volatizes during the expansion stage.

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(Previously presented) The method of Claim 1, further comprising
placing said final reaction mixture in a mold or placing a mold around the final
reaction mixture;

expanding the final reaction mixture in the mold; and curing the expanded final reaction mixture.